



Substitute for Form 1449A/PTO

**INFORMATION
DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 1

Complete if Known

Application Number	09/882,694
Filing Date	June 15, 2001
First Named Inventor	Duvick
Group Art Unit	1638
Examiner Name	Medina Ahmed Ibrahim
Attorney Docket Number	35718/208255 (5718-111C)

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U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document Number	Kind Code ² (if known)	Name of Patentee or Applicant Of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials	Cite No.	Foreign Patent Document Office ³	Number ⁴	Kind Code (if known) ⁵	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

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Considered**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
MAI	84	KELLER <i>et al.</i> (1998) "Identification of a Variant of <i>Fusarium proliferatum</i> That Hydrolyzes Fumonisin B ₁ ", <i>J. Agric. Food Chem.</i> , pp. 2823-2826, Vol. 46.	

* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RTA01/2129145v1

Medina Ibrahim

5/19/03

¹ Unique citation designation number.² See attached Kinds of U.S. Patent Documents.³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

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Sheet 1 of 7

Complete if Known

Application Number (not yet assigned)

Filing Date June 15, 2001

First Named Inventor Duvick

Group Art Unit (not yet assigned) 1638

Examiner Name (not yet assigned) M. Ibrahimi

Attorney Docket Number 35718/208255 (5718-111C)

U. S. PATENT DOCUMENTS

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MAI	1.	5,178,863	Toyoda <i>et al.</i>	01-12-1993	Whole document
	2.	5,639,949	Ligon <i>et al.</i>	06-17-1997	Whole document
	3.	5,716,820	Duvick <i>et al.</i>	02-10-1998	Whole document
	4.	5,792,931	Duvick <i>et al.</i>	08-11-1998	Whole document
	5.	5,877,273	Hance <i>et al.</i>	03-02-1999	Whole document

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MAI	6.	EP 0712932A2	Sumitomo Chemical Company, Limited	05-22-1996	Whole document	
	7.	WO 95/06121	Biomay Produktions – Und Handelsgesellschaft M.B.H.	03-02-1995	pp. 8-9	
	8.	WO 95/06128	Dekalb Genetics Corporation	03-02-1995	Whole document	
	9.	WO 96/06175	Pioneer Hi-Bred International, Inc.	02-29-1996	Whole document	
	10.	WO 96/12414	Ing. Erich Erber Kommanditge-Sellschaft	05-02-1996	Abstract	
	11.	WO 96/20595	Proguard, Inc.	07-11-1996	Whole document	
	12.	WO 99/02703	Pioneer Hi-Bred International, Inc.	01-21-1999	Whole document	
	13.	WO 99/10514	North Carolina State University	03-04-1999	Whole document	
	14.	WO 99/32505	Eli Lilly and Company	07-01-1999	Whole document	
Examiner Signature	Medina A. Ibrahimi			Date Considered	5/19/03	

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¹ Unique citation designation number.

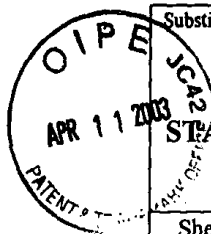
² See attached Kinds of U.S. Patent Documents.

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⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

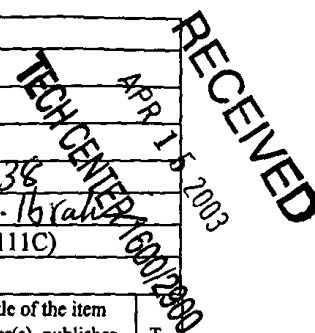
⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

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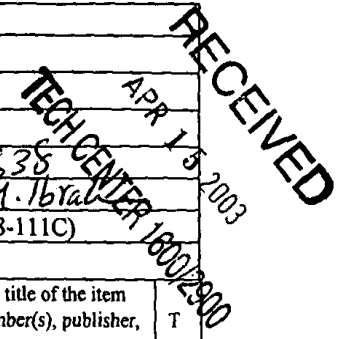
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		Examiner Name	(not yet assigned) M. Ibrahim	
Sheet	2 of 7	Attorney Docket Number	35718/208255 (5718-111C)	
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MAI	15.	ANZAI <i>et al.</i> (1989) "Transgenic Tobacco Resistant To A Bacterial Disease By The Detoxification Of A Pathogenic Toxin", <i>Mol Gen Genet</i> 219:492-494, ISSN: 0026-3924, XP002083624.		
	16.	ANZAI <i>et al.</i> (January 1, 1989) "Transgenic tobacco resistant to a bacterial disease by the detoxification of a pathogenic toxin", <i>Molecular and General Genetics</i> 219:492-494, XP002083624, ISSN: 0026-3925 the whole document.		
	17.	ARMENGAUD (September 17, 1998) "Sphingomonas sp. ORFs G1, G3 to G8 and EDO2 gene", EMBL Accession No:AJ223219, XP002133317, see nts 3310-4600.		
	18.	ARMENGAUD (November 1, 1998) "Flavin-binding monooxygenase-like", PFAM Accession No:PF00743, XP002133310.		
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	21.	BENNETZEN <i>et al.</i> (1992) "Approaches and Progress in the Molecular Cloning of Plant Disease Resistance Genes", <i>Genetic Engineering</i> 14:99-124.		
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	23.	BERGERON <i>et al.</i> (January 19, 1998) "Cloning, sequence and expression of a linear plasmid-based and a chromosomal homolog of chloroacetaldehyde dehydrogenase-encoding genes in <i>Xanthobacter autotrophicus</i> GJ10", <i>Gene</i> 207:9-18, XP002121100.		
	24.	BLACKWELL <i>et al.</i> (1999) "Oxidative Deamination of Hydrolyzed Fumonisin B ₁ (AP ₁) by Cultures of <i>Exophiala spinifera</i> ", <i>Natural Toxins</i> 7(1):31-38, ISSN: 1056-9014, XP002121276.		
	25.	BLATTNER <i>et al.</i> (October 1, 1996) "Hypothetical transcriptional regulator in MODC-BIOA intergenic region", SWISSPROT Accession No:p52696, XP002121103 the whole document.		
26.	BLATTNER <i>et al.</i> (January 29, 1997) "Escherichia coli K-12 MG1655 section 69 of 400 of the complete genome", EMBL Accession No:AE000179, XP002122134 see complement (4647..5663).			
Examiner Signature	Medina A. Ibrahim		Date Considered	5/19/03

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		Examiner Name	(not yet assigned) M. Ibrah		
Sheet	3	of	7	Attorney Docket Number	35718/208255 (5718-111C)



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MAI	27.	BOWEN <i>et al.</i> (May 5, 1997) "Cloning and Phylogenetic Analysis of the Genes Encoding Acetohydroxyacid Synthase from the Archaeon <i>methanococcus aeolicus</i> ", <i>Gene</i> 188:77-84, XP002130949 figure 2 and EMBL Accession No:U35458 (May 5, 1997).	
	28.	CHATTOPADHYAY <i>et al.</i> (1994) "Molecular Cloning And Sequencing Of An Operon, <i>carRS</i> Of <i>Azospirillum brasilense</i> , That Codes For A Novel Two-Component Regulatory System: Demonstration Of A Positive Regulatory Role Of <i>carR</i> For Global Control Of Carbohydrate Catabolism", <i>Journal of Bacteriology</i> 176(24):7484-7490.	
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	31.	CHEN <i>et al.</i> (July 16, 1988) "Acinetobacter sp. Cyclohexanone monooxygenase gene, complete cds", EMBL Accession No:M19029, XP002133308.	
	32.	CHEN <i>et al.</i> (October 1, 1989) "Cyclohexanone Monooxygenase (EC 1.14.13.22)", SWISSPROT Accession No:P12015, XP002133309.	
	33.	CHEN <i>et al.</i> (October 1, 1989) "Flavin-binding monooxygenase-like", PFAM Accession No:PF00743, XP002133310.	
	34.	CHUDHARY <i>et al.</i> (June 6, 1998) "483PLA2 Cosmid library of chromosome II Rhodobacter sphaeroides genomic clone 483PLA2, genomic survey sequence", EMBL Accession No:AQ012082, XP002130954, the whole document.	
	35.	COLE <i>et al.</i> (May 10, 1996) "Mycobacterium tuberculosis H37Rv complete genome; segment 41/162", EMBL Accession No:Z73101, XP002130945, the whole document and "Probable Monooxygenase RV0892 (EC 1.14.13.*)," SWISSPROT Accession No:Q10532 (October 1, 1996).	
	36.	COLE <i>et al.</i> (November 9, 1997) "Mycobacterium tuberculosis H37Rv complete genome; segment 125-162", EMBL Accession No:AL008883, XP002121098, see sequence 1434-1843.	
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	38.	COLE <i>et al.</i> (February 22, 1998) "Mycobacterium tuberculosis H37Rv complete genome; segment 33/162", EMBL Accession No:AL021943, XP002130936, the whole document.	

Examiner Signature	Mehmed A. Ibrah	Date Considered	5/19/03
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		Group Art Unit	(not yet assigned) 1638
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Sheet	4	of	7
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NON PATENT LITERATURE DOCUMENTS			
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MAI	39.	COLE <i>et al.</i> (February 22, 1998) "Mycobacterium tuberculosis H37Rv complete genome; segment 29/162", EMBL Accession No:AL021942, XP002130940, the whole document.	
	40.	COLE <i>et al.</i> (March 12, 1998) "Mycobacterium tuberculosis H37Rv complete genome; segment 155/162", EMBL Accession No:AL022121, XP002130947, the whole document.	
	41.	COULTON <i>et al.</i> (November 18, 1996) "E. coli shuA, shuC and shuD genes encoding the ferrichrome-iron receptor and two ferric aerobactin and ferric coprogen transport proteins, complete cds.", EMBL Accession No:M12486, XP002130941, the whole document.	
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	44.	DU (December 15, 1996) "Mycobacterium tuberculosis sequence from clone y175", EMBL Accession No:AD000015, XP002121097, see sequence 6027-6064.	
	45.	DUVICK <i>et al.</i> (1998) "Detoxification Of Mycotoxins In Planta As A Strategy For Improving Grain Quality And Disease Resistance: Identification Of Fumonisin-Degrading Microbes From Maize", <i>Molecular Genetics of Host-Specific Toxins In Plant Disease</i> , Proceedings of the 3 rd Tottori International Symposium Daisen, Tottori, Japan August 24-29, 1997, pp. 369-381. ISBN: 0-7923-4981-4. 1998. XP002121275	
	46.	FREIBERG <i>et al.</i> (October 1, 1996) "Putative transcriptional regulator Y4SM (ORF-1)", SWISSPROT Accession No:P50337, XP002121106, the whole document.	
	47.	GHOSH <i>et al.</i> (January 30, 1995) "A. brasilense carR gene", EMBL Accession No:X70360, XP002122135 the whole document and Chattopadhyay <i>et al.</i> (November 1, 1996) "CarR Gene", TREMBL Accession No:Q43901, XP002121105 the whole document.	
	48.	HELLER <i>et al.</i> (November 18, 1996) "E. coli btuB gene for the vitamin B12 receptor protein BtuB", EMBL Accession No:M10112, XP002130934, the whole document and SWISSPROT Accession No:P06129, (January 1, 1998).	
49.	IIMURA (May 31, 1995) "Msx-2 homolog [human, dental pulp-derived cells, mRNA, 2065 nt]", EMBL Accession No:S75361, XP002130932, the whole document.		
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		5/19/03	

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Group Art Unit (not yet assigned) 1638

Examiner Name (not yet assigned) H. Ibrahim

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Sheet 5 of 7

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MAI	50.	ISHIGURO <i>et al.</i> (April 22, 1989) "Transposon Tn4311 (from E. coli K-12) citrate utilization protein citA and citB genes, complete cds.", EMBL Accession No:M22041, XP002130953, the whole document.	
	51.	ISHIHARA <i>et al.</i> , AB#006450.	
	52.	ITAGAKI <i>et al.</i> (January 22, 1998) "Rhodococcus rhodochrous gene for steroid monooxygenase, complete cds", EMBL Accession No:AB010439, XP002133311.	
	53.	KIM <i>et al.</i> (February 4, 1998) "Organization and transcriptional characterization of the cat ₁ gene cluster in <i>Acinetobacter iwoffii</i> K24", <i>Biochemical and Biophysical Research Communications</i> 243:289-294, XP002121104 see fig. 2 and fig. 3 ORF1.	
	54.	KLENK <i>et al.</i> (December 1, 1997) "Archaeoglobus fulgidus section 144 of 172 of the complete genome", EMBL Accession No:AE000963, XP002130948, the whole document.	
	55.	LINTHORST <i>et al.</i> (1989) "Constitutive Expression of Pathogenesis-Related Proteins PR-1, GRP, and PR-S in Tobacco Has No Effect on Virus Infection", <i>The Plant Cell</i> 1:285-291.	
	56.	MADHUSUDHAN <i>et al.</i> (July 24, 1991) "Pseudomonas putida branched-chain keto acid dehydrogenase operon (bkdA1, bkdA1 and bkdA2), transacylase E2 (bkdB), bkdR and lipoamide dehydrogenase (lpdV) genes, complete cds", EMBL Accession No:M57613, XP002121102, see reverse complement of sequence 1405-1010.	
	57.	MADHUSUDHAN <i>et al.</i> (November 1, 1995) "Bkd operon transcriptional regulator", SWISSPROT Accession No:P42179, XP002121107, the whole document.	
	58.	MARTINEZ-SALAZAR <i>et al.</i> (April 1996) "Characterization of the Genes Coding for the Putative Sigma Factor AlgU and Its Regulators MucA, MucB, MucC, and MucD in <i>Azotobacter vinelandii</i> and Evaluation of Their Roles in Alginate Biosynthesis", <i>Journal of Bacteriology</i> 178(7):1800-1808, XP002130939.	
	59.	MOLNAR <i>et al.</i> (October 29, 1992) "Streptomyces sp. Genes for hypothetic proteins", EMBL Accession No:D13457, XP002130955 the whole document.	
	60.	MORII <i>et al.</i> (June 1, 1998) "Flavin-binding monooxygenase-like" PFAM Accession No:PF00743, XP002133310.	
	61.	MORII <i>et al.</i> (June 1, 1998) "Steroid Monooxygenase", SWISSPROT Accession No:050641, XP002133312.	
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MAI	62.	MURAKAMI <i>et al.</i> (January 21, 1999) "Cloning And Sequence Analysis Of Two Catechol-Degrading Gene Clusters From The Aniline-Assimilating Bacterium <i>Frateruria</i> Species ANA-18", <i>Gene</i> 226(2):189-198	
	63.	MURPHY <i>et al.</i> (January 26, 1998) "Streptomyces coelicolor cosmid 10A5", EMBL Accession No:AL021529, XP002121096, see reverse complement of 20673-20430.	
	64.	NIKAWA <i>et al.</i> (November 21, 1990) "Saccharomyces cerevisiae choline transport protein gene, complete cds.", EMBL Accession No. J05603, Abstract No. XP002138294, SWISSPROT Accession No. P19807 (July 15, 1998).	
	65.	OLIVER <i>et al.</i> (May 27, 1998) "Streptomyces cosmid IC3", EMBL Accession No:AL023702, XP002130938, the whole document.	
	66.	PCT Invitation To Pay Additional Fees, mailed March 30, 2000, International Application No. PCT/US99/15824, International Filing Date July 14, 1999.	
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	68.	PENG <i>et al.</i> (July 1998) "Cloning of a <i>Sphingomonas paucimobilis</i> SYK-6 Gene Encoding a Novel Oxygenase That Cleaves Lignin-Related Biphenyl and Characterization of the Enzyme", <i>Applied and Environmental Microbiology</i> 64(7):2520-2527, XP002130935.	
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	73.	SCHAAP <i>et al.</i> (July 24, 1998) "Agaricus bisporus <i>aldA</i> and <i>echA</i> genes", EMBL Accession No. Y17825, Abstract No. XP002138292.	

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MAI	74.	SCHMIDT <i>et al.</i> (1990) "Cloning and Nucleotide Sequence Of The <i>crl</i> Gene Encoding Phytoene Dehydrogenase From The Cyanobacterium <i>Aphanocapsa</i> PCC6714", <i>Gene</i> 91(1):113-117.			
	75.	SEEBACHER <i>et al.</i> (October 17, 1996) "R. norvegicus mRNA for laminin chain, 765bp", EMBL Accession No: Y08882, XP002130943, the whole document.			
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Examiner Signature	Medina A. Ibrahim			Date Considered	5/19/03

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number		09/882,694	
				Filing Date		June 15, 2001	
				First Named Inventor		Duvick	
				Group Art Unit		1638	
				Examiner Name		Medina Ahmed Ibrahim	
Sheet	1	of	1	Attorney Docket Number		35718/208255 (5718-111C)	
U. S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	U.S. Patent Document Number		Kind Code ² (if known)	Name of Patentee or Applicant Of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
FOREIGN PATENT DOCUMENTS							
Examiner Initials	Cite No.	Foreign Patent Document Office ³ Number ⁴		Kind Code (if known) ⁵	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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NON PATENT LITERATURE DOCUMENTS							
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MAI	84	KELLER <i>et al.</i> (1998) "Identification of a Variant of <i>Fusarium proliferatum</i> That Hydrolyzes Fumonisin B ₁ ", <i>J. Agric. Food Chem.</i> , pp. 2823-2826, Vol. 46.					

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				Examiner Name	(not yet assigned) M. Ibrahim			
Sheet 1 of 8	7	Attorney Docket Number		35718/208255 (5718-111C)				
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U. S. PATENT DOCUMENTS								
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MAI	1.	5,178,863		Toyoda <i>et al.</i>	01-12-1993	Whole document		
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MAI	6.	EP	0712932A2		Sumitomo Chemical Company, Limited	05-22-1996	Whole document	
	7.	WO	95/06121		Biomay Produktions - Und Handelsgesellschaft M.B.H.	03-02-1995	pp. 8-9	
	8.	WO	95/06128		Dekalb Genetics Corporation	03-02-1995	Whole document	
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	10.	WO	96/12414		Ing. Erich Erber Kommanditge-Sellschaft	05-02-1996	Abstract	
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	13.	WO	99/10514		North Carolina State University	03-04-1999	Whole document	
	14.	WO	99/32505		Eli Lilly and Company	07-01-1999	Whole document	
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				Group Art Unit	(not yet assigned) 1638
Examiner Name	(not yet assigned) M. Ibrahim				
Sheet	2	of	7	Attorney Docket Number	35718/208255 (5718-111C)
NON PATENT LITERATURE DOCUMENTS					
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				Examiner Name	(not yet assigned) M. Ibrahim
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Examiner Signature	Medwis Ibrahim			Date Considered	8/03/03


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				First Named Inventor	Duvick
				Group Art Unit	(not yet assigned) 1638
Examiner Name	(not yet assigned) M. Ibrahim				
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Examiner Signature	Medenis Ibrahim			Date Considered	2/03/03

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				First Named Inventor	Duvick
				Group Art Unit	(not yet assigned) 1638
				Examiner Name	(not yet assigned) M. Ibrah
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	Examiner Signature	Medina A. Ibrah			Date Considered

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				Application Number	(not yet assigned)
				Filing Date	June 15, 2001
				First Named Inventor	Duvick
				Group Art Unit	(not yet assigned) 1638
Sheet 7 of 7				Examiner Name	(not yet assigned) M. Ibrahim
				Attorney Docket Number	35718/208255 (5718-111C)
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T
	74.	SCHMIDT <i>et al.</i> (1990) "Cloning and Nucleotide Sequence Of The <i>crtI</i> Gene Encoding Phytoene Dehydrogenase From The Cyanobacterium <i>Aphanocapsa</i> PCC6714", <i>Gene</i> 91(1):113-117.			
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Examiner Signature	Medun Ibrahim			Date Considered	02/03/03

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